PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

INTERNATION (Cl	hapter II of the Patent Coopera	
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oplicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416 [Priority date (day/month/year)
041381CP ernational application No.	International filing date (day/mont) 20. Sep. 2004 (20. 09.	10 San 2003 (19, 09, 2003)
PCT/CN2004/001070 International Patent Classification (IPC) or C07H15/18, A61K31/70, A61K31/702	r national classification and IPC 28, A61K35/78, A61P3/00, A61	P15/02, A61P15/08, A61P15/12, A61P19/10
This report is the international prel under Article 35 and transmitted to	SD	
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4. This report contains indication Box No. I Basis of Box No. II Priorit Box No. II Non-est Box No. IV Lack of Box No. V Reason citation	ns relating to the following items. of the report stablishment of opinion with regard of unity of invention ned statement under Article 35(2) with ns and explanations supporting such	to novelty, inventive step and industrial applicability ith regard to novelty, inventive step or industrial applicability;
I DOY MO. 1.	ain documents cited in defects in the international applic tain observations on the international	Secondation of this report
mailing address of the	5 (11.04. 2000)	O9. Nov. 2005 (09. 11. 2005) Authorized officer Authorized officer Authorized officer Market Peng

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International application No. PCT/CN2004/001070

Box	No. I	I Basis	of the report				
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		a transla	ation of the international application into, which is the language of a	1			
		translation	n furnished for the purposes of:	ŀ			
		□intern	national search (Rules 12.3(a) and 23.1(b))				
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International application No. PCT/CN2004/001123

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		nslation of the international application into, whi	ch is the language of a
		ation furnished for the purposes of:	
		ternational search (Rules 12.3(a) and 23.1(b))	
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		the description, pages	
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		any table(s) related to sequence listing (specify):	
	If item	4 applies, some or all of those sheets may be marked "superseded."	
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International application No. PCT/CN2004/001070

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	apporting a		7					
1. Statement:		•	YES					
Novelty (N)	Claims		NO					
	Claims		NO					
			1770					
Inventive step (IS)	Claims		YES					
	Claims		NO					
Industrial applicability (IA)	Claims	1-4	YES					
	Claims		ИО					
 Citations and explanations (Rule 70.7) Cited documents D1: JP-A-2-36189 D2: WO-A1-9610408 D3: CN-A-1432383 D4: CN-A-1291613 D6: CN-A-1291613 D6: CN-A-1424318 D7: China Journal of Chinese Materia Medica, Vol.26, No.2, Feb., 2001, Xiao Y.Q et al, "Studies Chemical Constituents from Root of Saposhnikovia divaricata (Turcz.) Schischk", p117-119 Novelty The compound claimed by claim 1 is related to a glucoside from Epimeredi indica(L) Rothma. of formula I, document D1-D2, D4-D6 disclosed similar glucoside. In particular, the compound etailed disclosed in document D1(cf. claim 1 and Compound of formula I), document D2(specification, page 9, compound of formula Ia), document D4(cf. specification, page 5-6, compou No.5-7), document D5(cf. the compounds disclosed in the specification, page 3), document D6(specification, page 1) possess quite same main structure with those claimed by claim 1. In the view of documents D1-D2 and D6, the compound claimed by claim 1 are in particular no through the substituents of the phenyl radical of the formula, i.e. those substituents of the formul of D1-D2 and D6 are selected from hydrogen, hydroxyl or glucoside, while those of claim 1 further selected from methoxyl. In the view of document D4, the compound claimed by claim 1 are in particular novel through additional substitutents bonded to the glucoside radical, i.e., one of the hydroxyl group of glucoside radical in the formulas of D4 is substituted by a acetyl group, while that of claim 1 unsubstituted. In the view of document D5, the compound claimed by claim 1 are in particular novel through alkylidene radical bonded to the glucoside radical, i.e., the alkylidene radical of the formulas of D substituted by a ethyoxyl group, while that of claim 1 is unsubstituted. In the view of J1 to D7, the compounds claimed by claim 1 complies with the criterior novelty according to the PCT 33(2). 2.2 Claims 2-3 relate to the composition or formulation containing								

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of V:

2.3 Claims 4 relates to the preparation method of the pharmaceuticscontaining the compound of claim 1, while there are no disclosing of same preparation methods in document D1 to D7, thus, the preparation method claimed by claim 4 complies with the criterion of novelty according to the PCT 33(2).

3. Inventive Step

3.1 claim 1 relate to a glucoside from *Epimeredi indica(L) Rothmalex* of formula I, which are used for the treatment of the disorders relating to estrogen or progestogen dysequilibrium.

Although the compounds disclosed in documents D1-D2, D4-D6 possess high similar stucture with that claimed by claim 1, the compounds disclosed in D1 are used for the treatment of diabetic disorders, the compounds disclosed in D2 are used as cardioactive agent, the compounds disclosed in D4 and D6 are used for the treatment of nerve cell(neurocyte) apoptosis, and there is no detailed disclosing about the medicinal use of compounds in D5. Although document D3 disclosed that the roots of Epimeredi indica(L) Rothmalex can be used for the treatment of the disorders relating to estrogen or progestogen dysequilibrium, but there is no disclosing of detailed compound of formula I. Neither detailed compound of formula I nor the same medicine use are disclosed in document D7.

Thus, in the view of D1 to D7, the compounds claimed by claim 1 complies with the criterion of inventive step according to the PCT 33(3).

3.2 As the compounds claimed by claim 1 complies with the criterion of inventive step, based on the same reason, the composition, formulation, and their praration method of the compounds claimed by claim 1 also complies with the criterion of inventive step according to the PCT 33(3).